Course Description & Goals

The purpose of this course is to teach an appreciation of science and medical journalism and provide you with skills to report on science, medical, and environmental news for a variety of media, principally print or text, but also video and audio.

As a participant in this course, you’ll learn the following:

- How to find news value in scientific research reports.
- How to integrate scientific statistics from source materials into news reports.
- How to research, report and write science, medical and environmental news stories for popular media.

Reading

Readings for the course include a text about medical statistics, a classic book on writing well, a compendium of great writing about health and medicine from the New York Times, an anthology of the best science and nature writing published in 2015, a primer about science writing from masters in the field, a book about what we learn from the New York Times neuroscience and psychology reporter, and a memoir about race and medicine. Please complete the reading assignments before the appropriate classroom discussions. In addition to the list below, I’ll supply additional source materials and articles from various publications. Most of the following books are available at the UNC student store and copies of all the books will be on reserve in the Park Library (second floor) in the School of Media & Journalism. Please note that the books on reserve in the Park Library may be earlier editions that can be substituted for current editions. Students should also consult the AP Stylebook for proper style and usage for all written assignments.


Also, starting with the class for Wednesday, September 21, students should begin reading the print version of the Tuesday Science Times section of the New York Times. On the assigned dates, please bring the Science Times section to class. Consult the course schedule below for the exact dates for which the section should be read. Please note that the online version of the New York Times is not an acceptable substitute since the online and print versions do not necessarily have the same content. The New York Times is available in the UNC Student Store and is also available
at a reduced rate by subscription. To subscribe, you can call 1-800-NYTIMES and ask for college subscriptions. Receiving the print edition by subscription also gives you unlimited online access.

**Participation**

A working science journalist typically talks and discusses relevant issues with colleagues and others before preparing his or her report. This class will be no different. I’ll expect you to share your thoughts with your peers and with me. Classroom discussion will help clarify your ideas and sharpen your focus. You’ll also be posting all written assignments on Sakai where your classmates will critique your work before you submit it to Dr. Linden for a grade.

**Grading**

Each student will be responsible for two 15- to 20-minute presentations on assigned reading. Dr. Linden will assign the presentations at the beginning of the second class meeting. As critical thinking and discussion with peers are integral to the work of journalists, classroom participation and your two presentations will count for **20 percent** of your final grade. Your classroom participation grade will be based on the quality (not necessarily the quantity) of your discussion and will be based on the following criteria:

1) Whether it's clear that you've read and thought about the readings.

2) Your ability to integrate ideas gleaned from the readings into the larger context of science and medical reporting.

   To sharpen your writing skills, you'll write two original stories and revisions of each of those two stories. The four writing assignments will count for **80 percent** of your final grade. Each story's grade will be determined as follows (with 100 points possible for each assignment):

1) A maximum of 40 possible points for reporting. Key considerations in grading reporting include the following:

   a) Did you interview a variety of sources, each of whom was knowledgeable about the focus of your story and/or able to present a unique scientific or human interest perspective?
   b) Did you consult primary sources (like journal articles or government publications, e.g.)?
   c) Did you address relevant criteria for solid reporting as noted by the media critique website, [Health News Review](http://www.unc.edu/~trl/syllabi/560.html)?

2) A maximum of 40 possible points for writing. Consideration will be given to the following:

   a) Did you write clearly?
   b) Was your writing tight?
   c) Did you follow the writing guidelines enumerated by William Zinsser in his book, "On Writing Well."? If not, can you justify why?
   d) Does your story flow well?
   e) Did you stick to your six-word message (as discussed in class)?
   f) Did you follow rules in the AP Stylebook?

3) A maximum of 20 possible points will be given for the following:

   a) Is this story publishable with only minor edits?

**Grading Scale (for undergraduates)**

98 - 100 A+
94 - 97 A
91 - 93 A-
88 - 90 B+
84 - 87 B
81 - 83 B-
78 - 80 C+
74 - 77 C
71 - 73 C-
68 - 70 D+
64 - 67 D
61 - 63 D-
60 and below F

**Grading Scale (for graduate students)**

93 - 100 Honors
74 - 92 Pass
61 - 73 Low Pass
60 and below F

After one unexcused absence, each absence will result in a drop of one letter grade in the course. This is a upper division/graduate-level seminar, and your presence and contribution are essential. You **cannot** pass the course with more than two unexcused absences.
Assignments

To succeed in science and medical journalism, you must write well. Good writing requires an understanding of the material and the ability to communicate ideas simply and clearly.

All assignments must be posted on the Sakai discussion site at least two days before they’re due in class. Late assignments will not be accepted without prior permission. Even with prior permission, submission of late assignments will result in a 10-point deduction per day. Not turning in an assignment within two days of the due date will result in a zero grade. Misspelling of proper names will result in a 10-point deduction per misspelling. Misspelling of other words will result in a two-point deduction for each word misspelled. We'll follow the print style guidelines of the AP Stylebook. If you intend to pursue journalism as a career, I strongly encourage you to purchase a copy of the AP Stylebook. As per the usual practice in the School of Media & Journalism, a major factual error will result in a failing grade for that particular assignment. Fabricating sources or quotations or engaging in plagiarism will constitute a violation of the Honor Code (for more information about the UNC Honor Code, go to http://instrument.unc.edu).

For the physician profile assignment (assignment #1), you must complete the UNC Medical Center’s shadowing requirements as outlined below at least 24 hours BEFORE you shadow your physician. http://www.uncmedicalcenter.org/uncmc/support/volunteer-services/shadowing/

Please review the above site carefully after your first class as some of the requirements and forms may take up to a week to complete. Please consult Dr. Linden if you have questions.

Exams

There will be no midterm or final exam.

How To Succeed in This Course

- Attend classes consistently.
- Complete readings before the appropriate classroom discussions.
- Participate actively in class discussions.
- Ask the Professor questions either during class or during office hours if you’re unclear about any aspect of the course.
- Turn in stories on time, both on Sakai and in class.
- Check online syllabus frequently throughout the semester (preferably before each class) as assignments and topics may change without e-mail notice.
Course Schedule

WEEK 1:
AUG. 24: INTRODUCTION TO SCIENCE AND MEDICAL JOURNALISM
* Turn in Student Data Sheet that was emailed to you.

Reading for this class session:

WEEK 2:
Aug. 29: A GUIDE TO WRITING NONFICTION
* Learn the basics of writing nonfiction.

Reading:
Zinsser, William, On Writing Well, Chapters 1, 2, 3, 4, 5, 6, 7.

Review UNC Medical Center's shadowing requirements as outlined earlier in the syllabus.

Aug. 31: A GUIDE TO WRITING NONFICTION (cont.) & ETHICS OF SCIENCE AND MEDICAL JOURNALISM

Reading:
Holtz, Andrew, "Update: Conflict of interest/funding disclosure missing from half of news releases we've reviewed -- a case study on why that's important," Health News Review, August 10, 2016.
SPJ Code of Ethics: http://www.spi.org/ethicscode.asp?
Zinsser, William, On Writing Well, Chapters 8, 9, 10, 11, 12.

WEEK 3:
SEPT. 5: Labor Day (no class)
SEPT. 7: INTERPRETATION OF MEDICAL STATISTICS

Reading:
Browse the web sites of the World Health Organization's International Clinical Trials Registry Platform (ICTRP) and the National Institutes of Health's clinicaltrials.gov.
WEEK 4:

SEPT. 12: INTERPRETATION OF MEDICAL STATISTICS (cont.)

Reading:


Kolata, Gina, online at "Forty Years' War -- Advances Elusive in the Drive to Cure Cancer," also in New York Times Reader, pp. 156-162.


SEPT. 14: REPORTING FROM THE EMERGENCY DEPARTMENT - Judith E. Tintinalli, MD, MS, Professor, Dept. of Emergency Medicine, UNC-CH, and science and medical journalism Program Adjunct Professor

Please meet at 2:30 p.m. in the conference room above the Starbucks Cafe, located adjacent to the lobby of the UNC Cancer Hospital. Please allow 15 minutes to walk from the UNC Quad to the UNC Cancer Hospital.

Assignment #1: 900-word profile from the UNC Emergency Department due Wednesday, Oct 5. Please upload the draft of your story to Sakai -> Forums -> Assignment #1 by Monday, Oct. 3, at 6 p.m.

WEEK 5:

SEPT. 19: NEWS STORIES

Reading:

Blum et al., editors. A Field Guide for Science Writers, Chapters 1, 2, 4, 5, 6.


Linden, New York Times Reader, Chapter 1, pp. 7-24.

SEPT. 21: NEWS STORIES (cont.)

Reading:


Linden, New York Times Reader, Chapters 2 & 3.

WEEK 6:

SEPT. 26: NO CLASS

Reading:


SEPT. 28: PROFILES & EXPLANATORY STORIES

Reading:


WEEK 7:
OCT. 3: PROFILES & EXPLANATORY STORIES -- Skype interview with author and New York Times reporter Benedict Carey

Reading:

Carey, Benedict, How We Learn, pp. 3-171.

Assignment:

Assignment #1 due Wednesday, Oct. 5. Please upload the draft of your news story to Sakai -> Forums -> Assignment #1 by Monday, Oct. 3, at 6 p.m.

OCT. 5: CRITIQUE OF ASSIGNMENT #1

Assignment #1 due today.

WEEK 8:

OCT. 10: COMMENTARY: COLUMNS, ESSAYS AND BLOG POSTING -- Skype interview with Dr. Ivan Oransky, vice president and global editorial director, MedPage Today, and co-founder of Retraction Watch

Reading:


Oransky, Ivan, "Covering Medical Studies; How Not to Get It Wrong," PowerPoint presentation downloadable from Sakai.


Browse Retraction Watch, the website co-founded by Dr. Ivan Oransky.

Rewrite of assignment #1 due Monday, Oct. 17. Please upload the rewrite of your news story to Sakai -> Forums -> Assignment #2 by Saturday, Oct. 15, at 6 p.m.

OCT. 12: COMMENTARY: ESSAYS (cont.)

Reading:


WEEK 9:

OCT. 17: CRITIQUE OF ASSIGNMENT #2

Assignment #2 (rewrite of Assignment #1) due today.

OCT. 19: HISTORICAL STORIES

Reading:


Linden, New York Times Reader, Chapter 9, pp. 183-197.


WEEK 10:

OCT. 24: PERSPECTIVE STORIES
Reading:

Blum, Deborah & Mary Knudson, editors. A Field Guide for Science Writers, Ch. 17 (pp. 111-117), Ch. 20 (pp. 132-137).


Linden, New York Times Reader, Chapter 8, pp. 156-182.

OCT. 26: ESSAYS (cont.) -- Guest speaker, Stephanie Brown, Director, Park Library, 2:30-3:00 p.m.

Reading:


Wilkins, Alasdair, "I lost 100 pounds in a year. My 'weight loss secret' is really dumb." Vox, July 7, 2015.

Browse online resources from the MEJO Park Library.

Assignment #3: Essay due Wednesday, Nov. 9. Please upload the draft of your essay to Sakai -> Forums -> Assignment #3 by 6 p.m., Monday, Nov. 7.

WEEK 11:

OCT. 31: NO CLASS

Assignment #3: Essay due Wednesday, Nov. 9. Please upload the draft of your essay to Sakai -> Forums -> Assignment #3 by 6 p.m., Monday, Nov. 7.

NOV. 2: COVERING HEALTH NEWS -- REPORTING ON HEALTH NEWS -- guest speaker: Rose Hoban (unconfirmed), publisher of North Carolina Health News

Reading:

Please browse the North Carolina Health News web site.


Assignment #3: Essay due Wednesday, Nov. 9. Please upload the draft of your essay to Sakai -> Forums -> Assignment 3 by 6 p.m., Monday, Nov. 7.

WEEK 12:

NOV. 7: SCIENCE WRITING FOR MAGAZINES

Reading:


NOV. 9: CRITIQUE OF ASSIGNMENT #3

Assignment #3 due today.

WEEK 13:

NOV. 14: REPORTING FOR THE ELECTRONIC MEDIA

Reading:

NOV. 16: REPORTING FOR THE ELECTRONIC MEDIA -- Skype interview, Dan Childs, Managing Editor, ABC News Medical Unit (unconfirmed)

Viewing:
"This Week": Opting Out on Vaccines?," ABC News, April 6, 2014.

Assignment #4: Rewrite of Assignment #3 due Wednesday, Nov. 30. Please upload the draft of your story to Sakai -> Forums -> Assignment #4 by Monday, Nov. 28, at 6 p.m.

WEEK 14:

NOV. 21: RACE AND MEDICINE, guest speaker Dr. Damon Tweedy, author of *Black Man in a White Coat*

Reading:

Listen:

NOV. 23 - No Class (Happy Thanksgiving)

WEEK 14:

NOV. 28: RADIO REPORTING

Listen to "My Lobotomy," "Mastodons in Manhattan," and "An Ill Newborn, A Loving Family And A Litany Of Wrenching Choices."

Assignment #4: Rewrite of Assignment #3 due Wednesday, Nov. 30. Please upload the draft of your story to Sakai -> Forums -> Assignment #4 by Monday, Nov. 28, at 6 p.m.

NOV. 30: SCIENCE WRITING FOR MAGAZINES (cont.)

Reading:
"Science Times" section from Tuesday, Nov. 29, New York Times.


WEEK 15:

DEC. 5: SCIENCE WRITING FOR MAGAZINES (cont.)

Reading:

DEC. 7: CLASS WRAP-UP

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The Honor Code

I expect that each student will conduct himself or herself within the guidelines of the University honor system (http://honor.unc.edu). All academic work should be done with the high levels of honesty and integrity that this University demands. You are expected to produce your own work in this class. If you have any questions about your responsibility or your instructor's responsibility as a faculty member under the Honor Code, please see the course instructor or Senior Associate Dean Charlie Tuggle, or you may speak with a representative of the Student Attorney Office or the Office of the Dean of Students.

Seeking Help

If you need individual assistance, it's your responsibility to meet with the instructor. If you are serious about wanting to improve your performance in the course, the time to seek help is as soon as you are aware of the problem — whether the problem is difficulty with course material, a disability, or an illness.

Diversity

The University's policy on Prohibiting Harassment and Discrimination is outlined in the 2015-2016 Undergraduate Bulletin http://www.unc.edu/ugradbulletin/. UNC is committed to providing an
inclusive and welcoming environment for all members of our community and does not discriminate in offering access to its educational programs and activities on the basis of age, gender, race, color, national origin, religion, creed, disability, veteran’s status, sexual orientation, gender identity, or gender expression.

**Professional Values and Competencies**

Among the many skills students will learn in this course, it’s expected they will be able to fulfill the following values and competencies as enumerated by the Association for Education in Journalism and Mass Communication:

- understand concepts and apply theories in the use and presentation of images and information;
- demonstrate an understanding of professional ethical principles and work ethically in pursuit of truth, accuracy, fairness and diversity;
- think critically, creatively and independently;
- conduct research and evaluate information by methods appropriate to the communications professions in which they work;
- write correctly and clearly in forms and styles appropriate for the communications professions, audiences and purposes they serve;
- critically evaluate their own work and that of others for accuracy and fairness, clarity, appropriate style and grammatical correctness;
- apply basic numerical and statistical concepts;
- apply tools and technologies appropriate for the communications professions in which they work.

**Special Accommodations**

If you require special accommodations to attend or participate in this course, please let the instructor know as soon as possible. If you need information about disabilities visit the Accessibility Services website at https://accessibility.unc.edu/

--syllabus revised Aug. 23, 2016